

Cloud Computing

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Mini Homework: Create a VM instance

Screenshot of the instance created

The screenshot shows the AWS Management Console for the EC2 service. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, IMAGES, ELASTIC BLOCK STORE, and NETWORK & SECURITY. The main content area displays a table of instances with columns: Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, and Public DNS. One instance is listed with ID i-0f0bdb45323b1c098, type t2.micro, in us-east-1c, running state, with 2/2 checks passed, no alarms, and public DNS ec2-54-86-4-152.compute-1.amazonaws.com. Below the table, the 'Description' tab is selected, showing details for the instance i-0f0bdb45323b1c098. The details include: Instance ID, Instance state (running), Instance type (t2.micro), Elastic IPs, Availability zone (us-east-1c), Security groups (launch-wizard-1, view inbound rules), Scheduled events (No scheduled events), AMI ID (amzn-ami-hvm-2017.09.1.20180108-x86_64-gp2 (ami-cb9ec1b1)), Platform, IAM role, Public DNS (IPv4) (ec2-54-86-4-152.compute-1.amazonaws.com), IPv4 Public IP (54.86.4.152), IPv6 IPs (-), Private DNS (ip-172-31-95-26.ec2.internal), Private IPs (172.31.95.26), Secondary private IPs, VPC ID (vpc-3e434546), Subnet ID (subnet-c5c9acea), Network interfaces (eth0), and Source/dest. check (True).

Screenshot of the SSH (logged in using Putty)

This screenshot is similar to the previous one, showing the AWS Management Console with the same instance details. Overlaid on the console is a terminal window titled 'ec2-user@ip-172-31-95-26~'. The terminal shows the user logging in with the username 'ec2-user' and authenticating with a public key 'imported-openssh-key'. The last login was on Thu Jan 25 21:13:30 2018 from 216.165.95.185. The terminal displays the Amazon Linux AMI logo and provides instructions for updating the system: 'Run "/>

Attributes

- 1) Instance ID: i-0f0bdb45323b1c098
It denotes the ID of the instance which is unique to each instance.
- 2) Instance state: running
It denotes the state whether the instance is running, stopped or terminated. We can change the status of the instance from the 'Action' tab.
- 3) Public DNS (IPv4): ec2-54-86-4-152.compute-1.amazonaws.com
It denotes the domain name (host) of the instance using which we can access through the remote machine. We also need the private key (password) to access the instance.
- 4) IPv4 Public IP: 54.86.4.152
It denotes the IP address of the instance which can be used for communication over the internet.

- 5) AMI ID: `amzn-ami-hvm-2017.09.1.20180108-x86_64-gp2` (ami-cb9ec1b1)

It is a special type of virtual appliance that is used to create a virtual machine within the Amazon Elastic Compute Cloud. It serves as the basic unit of the deployment for services delivered using EC2.